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\*Admitted only in Maryland \*Admitted only in Virginia \*Practice Limited to Federal Agencies

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Mail Stop Amendment

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Utility Patent Application

Application No. 10/719,058; Filed: November 24, 2003

For: Methods, Systems, and Computer Program Products for Parallel

**Correlation and Applications Thereof** 

Inventors: Our Ref:

RAWLINS *et al.* 1744.1380000

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Fourth Supplemental Information Disclosure Statement;
- 2. Four (4) sheets of Form PTO-1449 listing twenty-six (26) documents; and
- 3. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

Sterne, Kessler, Goldstein & Fox p.l.l.c.

Patrick E. Garrett

Attorney for Applicants Registration No. 39,987

PEG/mlb Enclosures 535443\_1.DOC

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## THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RAWLINS et al.

Appl. No.: 10/719,058

Filed: November 24, 2003

For:

Methods, Systems, and Computer Program Products for Parallel

**Correlation and Applications** 

**Thereof** 

Confirmation No.: 9124

Art Unit: 2193

Examiner: Chaki, Kakali

Atty. Docket: 1744.1380000



## Fourth Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Fourth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Third Supplemental Information Disclosure Statement filed on March 24, 2006 in connection with the above-captioned application.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

RAWLINS et al. Appl. No. 10/719,058

Atty. Docket: 1744.1380000

Applicants provide the following comments regarding the documents:

Documents AC72, AH73, and AI73 are co-owned patents which are directed to related subject matter.

Documents AD72 and AE72 were cited in an Office Action in related U.S. Patent Application No. 11/173,021, filed July 5, 2005, entitled "Method and Circuit for Down-Converting a Signal," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 6,393,070, which has already been cited in the present application.

Documents AF72-AI72 and AA73-AG73 were cited in an Office Action in related U.S. Patent Application No. 10/305,299, filed November 27, 2002, entitled "Method and Apparatus for Improving Dynamic Range In a Communication System," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,339,459 and 5,517,688, which have already been cited in the present application.

Documents AA74 and AB74 were cited in an Office Action in related U.S. Patent Application No. 10/197,255, filed July 18, 2002, entitled "Networking Methods and Systems," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,703,584; 5,887,001; 6,298,065; and 6,850,742; and U.S. Patent Publication Nos. 2002/0080728 and 2002/0163921, which have already been cited in the present application.

Documents AC74-AG74 were cited in an Office Action in related U.S. Patent Application No. 11/068,370, filed March 1, 2005, entitled "Method and System for Frequency Up-Conversion with a Variety of Transmitter Configurations," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,903,854 and 5,914,622, which have already been cited in the present application.

Atty. Docket: 1744.1380000

Document AH74 was cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled "Optical Down-converter Using Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action was Deboo, Gordon J., *Integrated Circuits and Semiconductor Devices*, 2nd Edition, McGraw Hill, Inc., pp. 41-45 (1977), which has already been cited in the present application.

Documents AI74 and AA75 are co-owned, pending U.S. patent application publications directed to related subject matter.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below:

- 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final

Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.

- a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- □ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- c. Attached is our PTO-2038 Credit Card Payment Form in the amount of \_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(p).
- 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our PTO-2038 Credit Card Payment Form in the amount of in payment of the fee under 37 C.F.R. § 1.17(p); in addition:

- a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance.

  1138 OG 37, 38.
- 6. A concise explanation of the relevance of the non-English language documents appears below in accordance with 37 C.F.R. § 1.98(a)(3):
- ☑ 7. In accordance with 37 C.F.R. § 1.98(a)(2), copies of the U.S. patents and patent publications cited on the attached Form PTO-1449 are not enclosed.

■ 8.	Copies of the documents were cited by or submitted to the Office in an IDS that
	complies with 37 C.F.R. § 1.98(a)-(c) in Application No, filed
	, which is relied upon for an earlier filing date under 35 U.S.C. § 120.
	Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

∑ 9. It is expected that the examiner will review the prosecution and cited art in the parent application no. 09/987,193, filed November 13, 2001 (now U.S. Patent No. 7,010,559), in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Patrick E. Garrett Attorney for Applicants Registration No. 39,987

Date:

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

5/24/06

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**FORM PTO-1449** 

## **FOURTH SUPPLEMENTAL**

ATTY. DOCKET NO. 1744.1380000

APPLICATION NO. 10/719,058

Page 1 of 4

FIRST NAMED INVENTOR Gregory S. RAWLINS

		IH SUPPLEMENTAL		Gregory S. RAWLINS			
INFORMATION DISCLOSURE STATEMENT				FILING DATE   ART UNIT			
			U.S. PAT	November 24, 2003 2193			
EXAMINER	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
INITIAL	AA						
	AB						
	AC72	7,016,663 B2	03/2006	Sorrells et al.	-		
	AD72	3,694,754	09/1972	Baltzer			
	AE72	4,931,716 .	06/1990	Jovanovic et al.			
	AF72	3,617,898	11/1971	Janning, Jr.			
	AG72	3,764,921	10/1973	Huard			
	AH72	4,158,149	06/1979	Otofuji			
	A172	4,380,828	04/1983	Moon			
			<b>FOREIGN P</b>	ATENT DOCUMENTS			-
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
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FORM PTO-1449				ATTY. DOCKET NO. 1744.1380000	APPLICATION NO. 10/719,058			
	FOURT	TH SUPPLEMENTAL		FIRST NAMED INVENTOR Gregory S. RAWLINS				
INFOR		DISCLOSURE STATEM	<u>IENT</u>	FILING DATE ART UNIT November 24, 2003 2193				
			U.S. PAT	ENT DOCUMENTS				
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
	AA73	4,562,414	12/1985	Linder et al.				
	AB73	4,814,649	03/1989	Young				
	AC73	4,845,389	07/1989	Pyndiah et al.				
	AD73	5,172,019	12/1992	Naylor et al.				
	AE73	5,263,198	11/1993	Geddes et al.				
	AF73	5,551,076	08/1996	Bonn				
	AG73	5,633,610	05/1997	Maekawa et al.				
	AH73	7,027,786 B1	04/2006	Smith et al.				
	A173	7,039,372 B1	05/2006	Sorrells et al.				
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	F	FORM PTO-1449		ATTY. DOCKET NO. APPLICATION NO. 10/719,058			
	FOLIR	TH SUPPLEMENTAL		FIRST NAMED INVENTOR			
INFOR	MATION	DISCLOSURE STATEM	ENT	Gregory S. RAWLINS FILING DATE ART UNIT			
			U.S. PAT	November 24, 2003	2193		
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA74	6,591,310 B1	07/2003	Johnson			
	AB74	6,963,626 B1	11/2005	Shaeffer et al.			
	AC74	4,811,422	03/1989	Kahn			
	AD74	5,825,257	10/1998	Klymyshyn et al.			
	AE74	5,986,600	11/1999	McEwan			
	AF74	6,865,399 B2	03/2005	Fujioka et al.			
	AG74	2006/0039449 A1	02/2006	Fontana et al.			
	AH74	5,847,594	12/1998	Mizuno			
	A174	2005/0185741 A1	08/2005	Rawlins et al.			
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FORM PTO-1449				ATTY. DOCKET NO. APPLICATION NO. 1744.1380000 10/719,058			
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INFORMATION DISCLOSURE STATEMENT				Gregory S. RAWLINS FILING DATE	ART	JNIT	<del></del>
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	AA75	2005/0193049 A1	09/2005	Rawlins et al.			
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